

SPECIAL SECTION

Tuberculosis & Malaria

INTRODUCTION

- 841 Landscapes of Infection

NEWS

- 842 Redrawing Africa's Malaria Map
As Challenges Change, So Does Science
- 844 Malaria's Drug Miracle in Danger
If Artemisinin Drugs Fail, What's Plan B?
>> *Science Podcast*
- 847 The 'Do Unto Others' Malaria Vaccine
- 849 Shrinking the Malaria Map From the Outside In
Elimination Meets Reality in Hispaniola

REVIEWS

- 852 Tuberculosis: What We Don't Know Can, and Does, Hurt Us
D. G. Russell et al.
- 856 The Population Dynamics and Control of Tuberculosis
C. Dye and B. G. Williams
- 862 That Was Then But This Is Now: Malaria Research in the Time of an Eradication Agenda
S. H. I. Kappe et al.
- 866 The Selection Landscape of Malaria Parasites
M. J. Mackinnon and K. Marsh

>> Editorial p. 791



page 806

EDITORIAL

- 791 Support for Global Health
Barry R. Bloom
>> *Tuberculosis & Malaria* section p. 841

NEWS OF THE WEEK

- 798 ITER Cost Estimates Leave Europe Struggling to Find Ways to Pay
- 799 Bioethicists Assail a Celebrated TB/HIV Treatment Trial
- 801 From *Science's* Online Daily News Site
- 802 Herschel's First Images Spark Star-Formation Debate
- 802 Panel Finds Environmental Risks Neglected
- 803 From the *Science* Policy Blog
- 805 Sweden Bets on New Lab to Spruce Up Its Bioscience Future

NEWS FOCUS

- 806 THE LASER AT 50
Taking Laser Science to the Extreme
- 808 Laser Fusion Energy Poised to Ignite
- 810 Ever-Smaller Lasers Pave the Way for Data Highways Made of Light
Smallest of the Small?
- 812 Putting Light's Light Touch to Work as Optics Meets Mechanics

LETTERS

- 824 China's Environmental Civilian Activism
Q. Wang
Effects of China's Economic Growth
G. P. Peters et al.
Risks of Immune System Treatments
R. K. Burt et al.
- 825 TECHNICAL COMMENT ABSTRACTS
- 826 CORRECTIONS AND CLARIFICATIONS

BOOKS ET AL.

- 827 The Dawn of Green
H. Ritvo, reviewed by B. Luckin
- 828 Oil Panic and the Global Crisis
S. M. Gorelick, reviewed by D. L. Greene

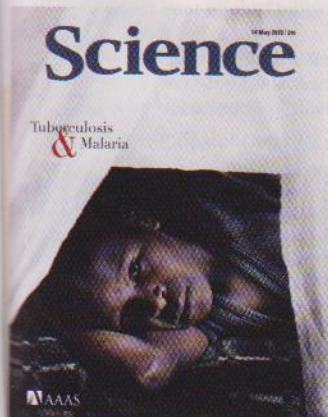
POLICY FORUM

- 829 Beyond Access vs. Protection in Trials of Innovative Therapies
A. J. London et al.

PERSPECTIVES

- 831 Assembling the Outer Membrane
D. A. Stroud et al.
>> Report p. 890
- 832 Are Lizards Toast?
R. B. Huey et al.
>> Report p. 894
- 834 Small RNA Makes Its Move
R. Martienssen
>> Research Article p. 872; Report p. 912

CONTENTS continued >>



COVER

Mosquito nets have saved many lives in the fight against malaria but are often in limited supply. A special section highlights research into malaria and tuberculosis, infectious diseases with high mortality and morbidity, particularly in the developing world. See page 841.

Photo: Adam Nadel (www.adamnadel.net) for Malaria Consortium, www.malaria-bloodsweatandtears.com/

DEPARTMENTS

- 787 This Week in *Science*
- 793 Editors' Choice
- 796 *Science* Staff
- 797 Random Samples
- 923 New Products
- 924 *Science* Careers

- 835 **Managing Multistate Quantum Entanglement**

C. Wildfeuer

>> Report p. 879

- 837 **Phylogeny of Methylo-**

A. Jeltsch

>> Report p. 916

- 838 **A Paleoclimatic Enigma?**

W. F. Ruddiman

RESEARCH ARTICLE

- 872 **Small Silencing RNAs in Plants Are Mobile and Direct Epigenetic Modification in Recipient Cells**

A. Molnar et al.

Small double-stranded interfering RNAs move between cells and can direct DNA methylation.
>> Perspective p. 834; Report p. 912

REPORTS

- 876 **Community Structure in Time-Dependent, Multiscale, and Multiplex Networks**

P. J. Mucha et al.

A general mathematical method used to identify closely interacting groups can explain the behavior of complicated networks.

- 879 **High-NOON States by Mixing Quantum and Classical Light**

I. Afek et al.

Adding photons to an entangled photon pair at a beam splitter can produce multiphoton entangled states.
>> Perspective p. 835

- 882 **Hydrogen Bonding Controls the Dynamics of Catechol Adsorbed on a TiO₂(110) Surface**

S.-C. Li et al.

The diffusion barrier for an organic molecule on a hydroxylated metal oxide surface depends on hydrogen bond formation.

- 884 **Heterogeneous Accretion and the Moderately Volatile Element Budget of Earth**

M. Schönbachler et al.

Silver isotopes from mantle rocks suggest that Earth assembled from materials with variable volatile contents.

- 887 **Narrow Primary Feather Rachises in *Confuciusornis* and *Archaeopteryx* Suggest Poor Flight Ability**

R. L. Nudds and G. J. Dyke

The flight feathers of early Mesozoic birds *Archaeopteryx* and *Confuciusornis* were too weak to support powered flight.

- 890 **Reconstitution of Outer Membrane Protein Assembly from Purified Components**

C. L. Hagan et al.

Assembly of a β -barrel membrane protein in a cell-free system does not require added energy.
>> Perspective p. 831

- 892 **Additive Genetic Breeding Values Correlate with the Load of Partially Deleterious Mutations**

J. L. Tomkins et al.

A correlation between mutational load and fitness is demonstrated in seed-feeding beetles, especially males.

- 894 **Erosion of Lizard Diversity by Climate Change and Altered Thermal Niches**

B. Sinervo et al.

A historical record of lizard populations in Mexico is used to parameterize models that predict global effects of climate change.
>> Perspective p. 832; Science Podcast

- 899 **Carbon Dioxide Enrichment Inhibits Nitrate Assimilation in Wheat and *Arabidopsis***

A. J. Bloom et al.

The inhibition of photorespiration by elevated carbon dioxide is paralleled by a reduction in the assimilation of nitrate.
>> Science Podcast

- 903 **Resource Management Cycles and the Sustainability of Harvested Wildlife Populations**

J. M. Fryxell et al.

The predictions of a model that describes humans hunting prey are confirmed using long-term ungulate data.

- 906 **Molecular Identity of Dendritic Voltage-Gated Sodium Channels**

A. Lorincz and Z. Nusser

Freeze-fracture methods allow a numerical estimate of Na⁺ channel density in different compartments of CA1 pyramidal cells.

- 910 **A Plant-Like Kinase in *Plasmodium falciparum* Regulates Parasite Egress from Erythrocytes**

J. D. Dvorin et al.

A calcium-dependent protein kinase is essential for blood-stage proliferation of the human malaria parasite.

- 912 **Small RNA Duplexes Function as Mobile Silencing Signals Between Plant Cells**

P. Dunoyer et al.

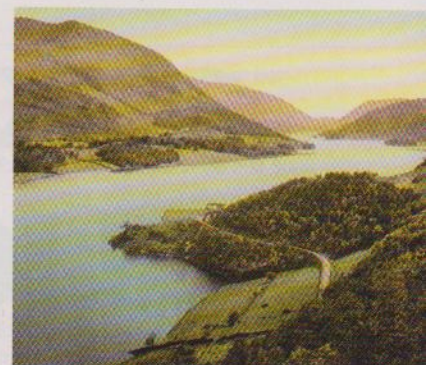
Small double-stranded interfering RNAs move between cells and can direct DNA methylation.
>> Perspective p. 834; Research Article p. 872

- 916 **Genome-Wide Evolutionary Analysis of Eukaryotic DNA Methylation**

A. Zemach et al.

Analysis of DNA methylation in 17 species suggests a path for the evolution of this epigenetic mark.
>> Perspective p. 837

CONTENTS continued >>



page 827



pages 832 & 894



page 887

SCIENCEONLINE

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Collective Lamb Shift in Single-Photon Superradiance

Röhlsberger et al.

Superradiance is observed from an ensemble of iron ions excited by synchrotron radiation.

1126/science.1187770

Genetic Evidence for High-Altitude Adaptation in Tibet

J. Simonson et al.

Candidate gene approach reveals genes under selection in humans living at high altitudes.

1126/science.1189406

Worm Bug Outbreaks in Multiple Crops Correlated with Wide-Scale Adoption of Bt Cotton in China

Lu et al.

The use of more specific pesticides results in the resurgence of nontargeted insect populations.

1126/science.1187881

Prion Strain Mutation Determined by Prion Protein Conformational Compatibility and Primary Structure

C. Angers et al.

The stability of two related strains is influenced by a species-specific amino acid difference in prion and elk prions.

1126/science.1187107

miR-33 Contributes to the Regulation of Cholesterol Homeostasis

J. J. Rayner et al.

1126/science.1189862

MicroRNA-33 and the SREBP Host Genes Cooperate to Control Cholesterol Homeostasis

J. H. Najafi-Shoushtari et al.

A small noncoding RNA helps regulate cholesterol levels in mice.

1126/science.1189123

TECHNICAL COMMENTS

Comment on "Detection of an Infectious Retrovirus, XMRV, in Blood Cells of Patients with Chronic Fatigue Syndrome"

C. Sudlow et al.

Full text at www.sciencemag.org/cgi/content/full/328/5980/825-a

A. Lloyd et al.

Full text at www.sciencemag.org/cgi/content/full/328/5980/825-b

J. W. M. van der Meer et al.

Full text at www.sciencemag.org/cgi/content/full/328/5980/825-c

Response to Comments on "Detection of an Infectious Retrovirus, XMRV, in Blood Cells of Patients with Chronic Fatigue Syndrome"

J. A. Mikovits and F. W. Ruscetti

Full text at www.sciencemag.org/cgi/content/full/328/5980/825-d

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Researchers find a new answer to the puzzle by recreating the gas giant in the lab.

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Extra gray matter helps dad remember and protect his kids later in life.

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New terahertz lens could see through materials opaque to visual and infrared light.

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RESEARCH ARTICLE: G β Activates GSK3 to Promote LRP6-Mediated β -Catenin Transcriptional Activity

K. K. Jernigan et al.

A *Xenopus* reconstitution system reveals that the G protein G β subunit contributes to β -catenin stabilization.

RESEARCH ARTICLE: Dynamics of Subsynaptic Vesicles and Surface Microclusters at the Immunological Synapse

M. A. Purbhoo et al.

PERSPECTIVE: T Cell Activation at the Immunological Synapse—Vesicles Emerge for LAT Signaling

D. D. Billadeau

Vesicles dynamically deliver the T cell adaptor protein LAT to sites of T cell signalosomes.

PODCAST

D. Q. Matus et al.

Genes that affect development of the nematode gonad are implicated in cell invasion and metastasis.

SCIENCE CAREERS

www.sciencereers.org/career_magazine

Free Career Resources for Scientists

Taken for Granted: Intimate Collaborations

B. L. Benderly

Scientists' propensity to pair up romantically can help or hurt their careers.

Peering Inside the Social Brain

S. Carpenter

The brain's processing of social information has fueled an explosion of research and research careers.

In Person: Studying the Implications of New Medical Technologies

W. Fortson

People with scientific training are needed to explore ethical and legal issues of science in the clinic.

SCIENCE TRANSLATIONAL MEDICINE

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PERSPECTIVE: Targeting Myeloid Leukemia Stem Cells

C. T. Jordan

Cell surface molecules that are selectively expressed on leukemia stem cells may pave the way for antibody-based diagnostics or therapeutics.

PERSPECTIVE: Function Follows Form—Defining Mammary Stem Cells

M. dM Vivanco

Functional isolation of normal mammary stem cells offers molecular insights into these cells and their cancerous counterparts.

RESEARCH ARTICLE: Spectral Responses of the Human Circadian System Depend on the Irradiance and Duration of Exposure to Light

J. J. Gooley et al.

Circadian responses to long-wavelength light suggest a previously unrecognized role for cone photoreceptors.

RESEARCH ARTICLE: Metabolic Modulation of Glioblastoma with Dichloroacetate

E. D. Michelakis et al.

EDITORIAL: Targeting Cell Metabolism in Cancer Patients

M. G. Vander Heiden

Dichloroacetate shifts metabolism away from aerobic glycolysis in glioblastoma tumor cells and may have clinical efficacy in patients.

SCIENCE PODCAST

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Download the 14 May Science Podcast to hear about dwindling lizard diversity, carbon dioxide inhibition of plant nitrogen assimilation, malaria drugs losing their punch, and more.

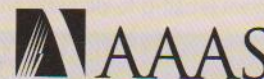
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Science Policy News and Analysis

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